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**United States Department of Agriculture,
MONTHLY LIST OF PUBLICATIONS.**

[OCTOBER, 1921.]

READ CAREFULLY BEFORE ORDERING.

☞ Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞ Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞ NOTE.—As long as the department's somewhat limited supply of the current numbers of Farmers' Bulletins lasts they may be obtained by all applicants free of charge. They are also for sale at 5 cents per copy unless otherwise noted.

How to Select Foods. 1. What the body Needs. By Caroline L. Hunt and Helen W. Atwater. Pp. 13, fig. 1. Contribution from the States Relations Service. Revised October, 1921. (Farmers' Bulletin 808.) For general distribution.

The Fowl Tick and How Premises May Be Freed from It. By F. C. Bishopp, Entomologist, Investigations of Insects Affecting the Health of Animals. Pp. 16, figs. 9. Contribution from the Bureau of Entomology. Revised, October, 1921. (Farmers' Bulletin 1070.) For general distribution.

Operating a Home Heating Plant. By A. M. Daniels, Assistant Mechanical Engineer, Division of Agricultural Engineering. Pp. 28, figs. 8. Contribution from the Bureau of Public Roads. Revised, September, 1921. (Farmers' Bulletin 1194.) Suitable for general distribution.

Motor Trucks on Eastern Farms. By H. R. Tolley, Agricultural Engineer, and L. M. Church, Assistant in Agricultural Engineering. Pp. 23, figs. 10. Joint contribution from the Office of Farm Management and the Bureau of Public Roads. 1921. (Farmers' Bulletin 1201.)

This bulletin is based on the experience of 753 farmers in the Eastern States and is intended to aid other farmers in that section in determining whether or not the use of motor trucks would be to their advantage.

Planting and Care of Street Trees. By F. L. Mulford, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 25, figs. 25. Contribution from the Bureau of Plant Industry. August, 1921. (Farmers' Bulletin 1209.) Suitable for general distribution.

Home Canning of Fruits and Vegetables. Pp. 50, figs. 14. Contribution from the States Relations Service. October, 1921. (Farmers' Bulletin 1211.)

Is intended to replace Farmers' Bulletin 839 "Home Canning by the One Period Cold-Pack Method" and 853 "Home Canning of Fruits and Vegetables," as far as home canning of fruits and vegetables is concerned.

The Potato Leafhopper and Its Control. By J. E. Dudley, Jr., Scientific Assistant, Truck-Crop Insect Investigations. Pp. 16, figs. 14. Contribution from the Bureau of Entomology, 1921. (Farmers' Bulletin 1225.)

Describes a serious and costly enemy of potato, bean, sugar beet, and other crops in the North Central and Northeastern States, and suggests methods of control.

Take-All of Wheat and Its Control. By Harry B. Humphrey, Pathologist in Charge, Aaron G. Johnson, Pathologist, and Harry H. McKinney, Assistant Pathologist, Cereal-Disease Investigations, Office of Cereal Investigations. Pp. 12, figs. 5. Contribution from the Bureau of Plant Industry. August, 1921. (Farmers' Bulletin 1226.)

A description of the disease with suggested methods of control.

Seed Marketing Hints for the Farmer. By George C. Edler, Specialist in Marketing Seeds. Pp. 31, figs. 14. Contribution from the Bureau of Markets. October, 1921. (Farmers' Bulletin 1232.) Suitable for general distribution.

Laws Relating to Fur-Bearing Animals, 1921. A Summary of Laws in the United States, Canada, and Newfoundland, Relating to Trapping, Open Seasons, Propagation, and Bounties. By George A. Lawyer, Chief United States Game Warden, and Frank L. Earnshaw, Assistant, Interstate Commerce in Game. Pp. 31. Contribution from the Bureau of Biological Survey. September, 1921. (Farmers' Bulletin 1233.) For general distribution.

The Peach Borer: How to Prevent or Lessen Its Ravages. By A. L. Quintance, Entomologist in Charge, Fruit Insect Investigations. 1p. 14, figs. 12. Contribution from the Bureau of Entomology. October, 1921. (Farmers' Bulletin 1245.)

This bulletin treats of the paradichlorobenzene treatment for the peach borer, and is suitable for general distribution.

DEPARTMENT BULLETINS—TECHNICAL.

The publications listed below are technical or scientific bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts.

Western Sneezeweed (*Helenium Hoopesii*) as a Poisonous Plant. By C. Dwight Marsh, Physiologist in Charge of Investigations of Stock Poisoning by Plants, A. B. Clawson, Physiologist, James F. Couch, Pharmacological Chemist, and Hadleigh Marsh, Veterinary Inspector. Pp. 46, pls. 2, figs. 5. Contribution from the Bureau of Animal Industry. (Professional Paper.) Oct. 11, 1921. (Department Bulletin 947.) Price, 10 cents.

A description of the weed and its effect upon stock when eaten. Of interest to western stock raisers. Standard and Tentative Methods of Sampling and Testing Highway Materials. Recommended by the Second Conference of State Highway Testing Engineers and Chemists held at Washington, D. C., February 23 to 27, 1920. Pp. 98, figs. 37. Contribution from the Office of Public Roads. Oct. 10, 1921. (Department Bulletin 949.) Price, 25 cents.

A technical publication of interest to Engineers and Chemists generally.

Experiments and Suggestions for the Control of the Codling Moth in the Grand Valley of Colorado. By E. H. Siegler, Entomologist, and H. K. Plank, Scientific Assistant, Fruit Insect Investigations, in cooperation with the Colorado Agricultural Experiment Station. Pp. 38, pls. 2. Contribution from the Bureau of Entomology. (Professional Paper.) Oct. 8, 1921. (Department Bulletin 959.) Price, 10 cents.

Of interest to fruit growers in the Grand Valley of Colorado.

Control of the Argentine Ant in California Citrus Orchards. By R. S. Woglum, Entomologist, and A. D. Borden, Scientific Assistant, Fruit Insect Investigations. Pp. 43, figs. 21. Contribution from the Bureau of Entomology. Oct. 18, 1921. (Department Bulletin 965.) Price, 10 cents.

Of interest to citrus fruit growers generally.

Results of Work on Blister Beetles in Kansas. By F. B. Milliken, Scientific Assistant, Truck-Crop Insect Investigations. Pp. 26, figs. 22. Contribution from the Bureau of Entomology. (Professional Paper.) Oct. 14, 1921. (Department Bulletin 967.) Price, 10 cents.

Describes this insect, its economic importance, and suggests control measures.

The Mexican Whorled Milkweed (*Asclepias Mexicana*) as a Poisonous Plant. By C. Dwight Marsh, Physiologist in Charge of Investigations of Stock Poisoning by Plants, and A. B. Clawson, Physiologist, Pathological Division. Pp. 16, pls. 2, fig. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) Oct. 6, 1921. (Department Bulletin 969.) Price, 5 cents.

Describes a plant poisonous to stock, and the effects produced when eaten.

Directions for Blueberry Culture, 1921. By Frederick V. Coville, Botanist. Pp. 24, pls. 29. Contribution from the Bureau of Plant Industry. (Professional Paper.) Oct. 15, 1921. (Department Bulletin 974.) Price, 30 cents.

A revision of Department Bulletin 334, and suitable for general distribution.

Marketing Hay at Country Points. By H. B. McClure, Specialist in Marketing Hay, and G. A. Collier, Investigator in Marketing Hay. Pp. 27, fig. 1. Contribution from the Bureau of Markets and Crop Estimates. Oct. 18, 1921. (Department Bulletin 977.) Price, 5 cents.

Of interest to persons engaged in growing and marketing hay and to dealers in feed stuff.

Marketing Hay Through Terminal Markets. By G. A. Collier, Investigator in Hay Marketing, and H. B. McClure, Specialist in Hay Marketing. Pp. 52, figs. 6. Contribution from the Bureau of Markets and Crop Estimates. Oct. 22, 1921. (Department Bulletin 979.) Price, 10 cents.

Of interest to growers of hay and to dealers in feed stuffs.

Pine-Oil and Pine-Distillate Product Emulsions: Method of Production, Chemical Properties, and Disinfectant Action. By L. P. Shippen, Bacteriologist, and E. L. Griffin, Assistant Chemist, Insecticide and Fungicide Laboratory, Miscellaneous Division, Bureau of Chemistry. Pp. 16. Contribution from the Bureau of Chemistry and the Insecticide and Fungicide Board. Oct. 7, 1921. (Department Bulletin 989.) Price, 5 cents.

A technical publication of interest to Chemists generally.

Preliminary Manufacturing Tests of the Official Cotton Standards of the United States for Color for Upland Tinged and Stained Cotton. By W. R. Meadows, Cotton Technologist, and W. G. Blair, Specialist in Cotton Testing. Pp. 12. Contribution from the Bureau of Markets and Crop Estimates. (Professional Paper.) Oct. 20, 1921. (Department Bulletin 990.) Price, 5 cents.

Of interest to manufacturers of cotton goods.

Crop Rotation and Cultural Methods at Edgeley, North Dakota. By John S. Cole, Agriculturist, Office of Dry-Land Agriculture Investigations. Pp. 24, figs. 4. Contribution from the Bureau of Plant Industry. Oct. 17, 1921. (Department Bulletin 991.) Price, 5 cents.

Of interest to dry-land farmers near the humid areas.

The Composition of California Lemons. By E. M. Chace, chemist in charge, and C. P. Wilson and C. G. Church, assistant chemists, Laboratory of Fruit and Vegetable Chemistry. Pp. 18, figs. 2. Contribution from the Bureau of Chemistry. Oct. 15, 1921. (Department Bulletin 993.) Price, 5 cents.

Of interest to lemon growers and to manufacturers of lemon by-products.

The Beet Sugar Industry in the United States in 1920. By C. O. Townsend, Pathologist in Charge, Office of Sugar-Plant Investigations. Pp. 58, pls. 10. Contribution from the Bureau of Plant Industry. Oct. 14, 1921. (Department Bulletin 995.)

A discussion of the beet-sugar industry in all its phases, together with a list of beet-sugar mills in the United States.

Flushing and Other Means of Increasing Lamb Yields. By F. R. Marshall and C. G. Potts, Animal Husbandry Division. Pp. 14. Contribution from the Bureau of Animal Industry. Oct. 12, 1921. (Department Bulletin 996.) Price, 5 cents.

Of interest to live stock owners generally.

MISCELLANEOUS.

Forest Experiment Stations. By Earle H. Clapp, Assistant Forester, Forest Service. Pp. 34, figs. 9. October, 1921. (Circular 183, Office of the Secretary.) Price, 10 cents.

Describes the location, work, and need of Forest Experiment Stations.

The Home Garden for Club Members. By Glen Briggs, Agronomist and Horticulturist. Pp. 15, pls. 4. Oct. 15, 1921. (Extension Circular No. 2, Guam Agricultural Experiment Station.) Prepared for distribution among members of boys and girls clubs in the Island of Guam only. Not available for distribution by the Department.

Status and Results of Home Demonstration Work, Northern and Western States, 1920. By Florence E. Ward, in Charge Extension Work With Women. Pp. 30, figs. 6. Contribution from the States Relations Service. 1921. (Department Circular 178.) Price, 5 cents.

Status and Results of County Agent Work, Northern and Western States, 1920. By W. A. Lloyd, In Charge County Agent Work. Pp. 36, figs. 9. Contribution from the States Relations Service. Sept., 1921. (Department Circular 179.) Price, 5 cents.

Handbook for Campers in the National Forests in California. Pp. 48. Contribution from the Forest Service. September, 1921. (Department Circular 185.) Price, 5 cents.

Fulghum Oats. By T. R. Stanton, Agronomist in Oat Investigations, Office of Cereal Investigations. Pp. 11, figs. 2. Contribution from the Bureau of Plant Industry. September, 1921. (Department Circular 193.) Price, 5 cents.

Kanred Wheat. By J. Allen Clark, Agronomist in Charge of Western Wheat Investigations, Bureau of Plant Industry, and S. C. Salmon, in Charge of Farm-Crop Production, Kansas Agricultural Experiment Station. Pp. 13 figs. 3. Contribution from the Bureau of Plant Industry. September, 1921. (Department Circular 194.) Price, 5 cents.

Describes a new hard red winter wheat recommended for the hard, winter red wheat belt, particularly Kansas and Nebraska.

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1921. Pp. 20. Contribution from the Bureau of Biological Survey. Oct. 18, 1921. (Department Circular 196.) Price, 5 cents.

SERIALS.

Monthly List of Publications. Announcement of the publications issued by the Department of Agriculture. Sent regularly without charge to all who apply for it.

Journal of Agricultural Research. (For sale only.) Vol. 22, No. 1. October 1, 1921. Contents: Occurrence of Quercetin in Emerson's Brown-Husked Type of Maize. (G-244.) By Charles E. Sando and H. H. Bartlett.—Biological Analysis of the Seed of the Georgia Velvet Bean, *Stizolobium deeringianum*. (Ark-1.) By Barnett Sure and J. W. Read.—Effect of Soil Temperature upon the Development of Nodules on the Roots of Certain Legumes. (G-245.) By Fred Reuel Jones and W. B. Tisdale.—Influence of the Period of Transplanting Western White Pine Seedlings upon Their Behavior in Nursery and Plantation. (R-6.) By E. C. Rogers.—A Dryrot Canker of Sugar Beets. (Utah-14.) By B. L. Richards. Pp. 1-52, pls. 9, figs. 26. Price, 15 cents.

Same, Vol. 22, No. 2, October 8, 1921. Contents: Comparative Vigor of F_1 Wheat Crosses and Their Parents. (Minn.-43.) By Fred Griffice.—Temperature and Humidity Studies of some Fusaria Rots of the Irish Potato. (Nebr.-3.) By R. W. Goss.—Black-leg Potato Tuber-Rot under Irrigation. (G-246.) By M. Shapovalov and H. A. Edson.—Microscopic Study of Bacteria in Cheese. (N. Y. Geneva-6.) By G. J. Hucker.—Further Studies on Relation of Sulphates to Plant Growth and Composition. (Oreg.-7.) By Harry G. Miller.—Soybean Mosaic. (Ind.-10.) By Max W. Gardner and James B. Kendrick. Pp. 53-114, pls. 10. Price, 15 cents.

Same, Vol. 22, No. 3, October 15, 1921. Contents: Influence of the Plane of Nutrition on the Maintenance Requirement of Cattle. (Mo.-5.) By F. B. Mumford, A. G. Hogan, and W. D. Salmon.—Turnip Mosaic. (Ind.-11.) By Max W. Gardner and James B. Kendrick.—Hydrocyanic Acid in Sudan Grass. (Kans.-27.) By C. O. Swanson.—Nutrient Requirements of Growing Chickens: Nutritive Deficiencies of Corn. (Nebr.-4.) By F. E. Mussehl, J. W. Calvin, D. L. Halbersleben, and R. M. Sandsuedt.—Aerial Stage of the Orange Leafrust of Wheat, *Puccinia triticina* Erikss. (G-247.) By H. S. Jackson and E. B. Mains.—A Transmissible Mosaic Disease of Chinese Cabbage, Mustard, and Turnip. (G-248.) By E. S. Schultz. Pp. 115-178, pls. 4, figs. 11. Price, 15 cents.

NOTE.—Volumes 1 to 4 of the Journal of Agricultural Research were published monthly, volumes 5 to 16 weekly, volume 17 monthly, volumes 18, 19, 20, and 21 semi-monthly. Beginning with volume 22, this issue is weekly. The Journal is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being 15 cents a single copy, \$3 a year for domestic circulation, and \$4.25 a year for foreign circulation.

Experiment Station Record. Vol. 45, No. 2, August, 1921. E. W. Allen, Ph. D., Editor. Pp. 161-200. Price, 10 cents.

Same, Vol. 45, No. 3. Abstract Number. Pp. 201-300. Oct. 17, 1921. Price, 10 cents.

Same, Vol. 45, No. 4, September, 1921. Pp. 301-400. Price, 10 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at 75 cents a volume.

The Monthly Crop Reporter. Vol. 7, No. 10, October, 1921. Pp. 121-132. (Bureau of Markets and Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stock.

ANNOUNCEMENT. Because of the small fund available for printing, it has been found necessary to drop from the mailing list of the Monthly Crop Reporter all names of persons who are not actively cooperating with the United States Department of Agriculture. Persons whose names are dropped may subscribe for this publication, through the Superintendent of Documents, Washington, D. C., at the domestic rate of 25 cents per year, and 40 cents per year to foreign address, payable only by postal money order or cash. No checks accepted.

The Market Reporter. Vol. 4, Nos. 14-18, inclusive, October, 1921. (Bureau of Markets and Crop Estimates.) For free distribution to applicants who show the need for it and give the general nature of their business or occupation in connection with which this publication will be used.

Weekly News Letter.

Contains a weekly summary in popular form of the more important practical discoveries and recommendations of all bureaus of the department. Free list confined to department employees, official cooperators, and the press. May be purchased from the Superintendent of Documents, Government Printing Office, for 50 cents a year.

SOIL SURVEYS.

NOTE. All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Adair County, Iowa. By Clarence Lounsbury, of the U. S. Department of Agriculture, and T. H. Benton, and P. C. Wiechmann, of the Iowa Agricultural Experiment Station. Pp. 25, fig. 1, map. (From F. O. Soils, 1919.) Price, 15 cents.



- Soil Survey of Marshall County, Iowa.** By A. H. Meyer, of the U. S. Department of Agriculture, and E. I. Angell, of the Iowa Agricultural Experiment Station. Pp. 35, fig. 1, map. (From F. O. Soils, 1918.) Price, 15 cents.
- Soil Survey of Palo Alto County, Iowa.** By A. M. O'Neal, jr., and W. E. Tharp, of the United States Department of Agriculture, and F. M. Russell, C. E. Watts, and G. H. Artis, of the Iowa Agricultural Experiment Station. Pp. 36, fig. 1, map. (From F. O. Soils, 1918.) Price, 15 cents.
- Soil Survey of Polk County, Iowa.** By E. H. Snies, of the U. S. Department of Agriculture, and George E. Corson, and Charles J. Meister, of the Iowa Agricultural Experiment Station. Pp. 67, fig. 1, map. (From F. O. Soils, 1918.) Price, 20 cents.
- Soil Survey of Chariton County, Missouri.** By W. I. Watkins and C. E. Deardorff, of the U. S. Department of Agriculture, and H. H. Krusekopf and W. De Young, of the University of Missouri. Pp. 34, fig. 1, map. (From F. O. Soils, 1918.) Price, 15 cents.
- Soil Survey of Banner County, Nebraska.** By F. A. Hayes, of the United States Department of Agriculture, and H. L. Bedell of the Nebraska Soil Survey. Pp. 62, fig. 1, map. (From F. O. Soils, 1918.) Price, 15 cents.
- Soil Survey of Bowle County, Texas.** By L. L. R. Schoenmann, W. I. Watkins, E. J. Carpenter, William T. Carter, jr., and M. W. Beck, of the U. S. Department of Agriculture, and T. H. Benton, of the Texas Agricultural Experiment Station. Pp. 62, fig. 1, map. (From F. O. Soils, 1918.) Price, 25 cents.
- Soil Survey of Freestone County, Texas.** By H. W. Hawker and F. A. Hayes and J. F. Stroud and Neal Gearreald, of the Texas Agricultural Experiment Station. Pp. 58, fig. 1, map. (From F. O. Soils, 1919.) Price, 25 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only* at prices noted.

- Bureau of Animal Industry.** No. 173, pp. 87-96. Oct. 20, 1921. Price, 5 cents.
- Bureau of Chemistry.** Supplement 118. (Notices of Judgments, 9351-9400). Pp. 259-292. Oct. 15, 1921. Price, 10 cents.
- Same.** Supplement 119. (Notices of Judgments, 9401-9450). Pp. 293-330. Oct. 24, 1921. Price, 10 cents.
- Same.** Supplement 120. (Notices of Judgments, 9451-9500.) Pp. 331-361. Oct. 29, 1921. Price, 10 cents.
- Insecticide and Fungicide Board.** No. 36. Pp. 835-866. Oct. 19, 1921. Price, 5 cents.
- Bureau of Markets and Crop Estimates, No. 70.** State bureaus of markets, including divisions and other agencies doing marketing work. Pp. 12. October, 1921. Price, 5 cents.

SEPARATES.

- Speaking of the Weather.** By J. Warren Smith, Weather Bureau. Pp. 23. il. (Separate 838, Yearbook, 1920.) Price, 5 cents.
- Killing Boll Weevils With Poison Dust.** By B. R. Coad, Bureau of Entomology. Pp. 12, il. (Separate 842, Yearbook, 1920.) Price, 5 cents.
- Getting Our Potash.** By William H. Ross, Bureau of Soils. Pp. 14, il. (Separate 851, Yearbook, 1920.) Price, 5 cents.
- Flowering and Fruiting of Plants as Controlled by the Length of Day.** By W. W. Garner and H. A. Allard, Bureau of Plant Industry. Pp. 24, il. (Separate 852, Yearbook, 1920.) Price, 5 cents.
- Uses of the Soil Survey.** By Charles H. Seaton, Bureau of Soils. (Separate 854, Yearbook, 1920.) Price, 5 cents.
- Death to the Rodents.** By W. B. Bell, Bureau of Biological Survey. Pp. 18, il. (Separate 855, Yearbook, 1920.) Price, 5 cents.
- Putting Wood Waste to Work.** By Samuel T. Dana, Forest Service. Pp. 24, il. (Separate 856, Yearbook, 1920.) Price, 5 cents.
- The Farmers' Interest in Foreign Markets.** By F. G. Montgomery and C. L. Luedtke, Bureau of Markets. Pp. 8, il. (Separate 860, Yearbook, 1920.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein:

- Monthly Weather Review.** Vol. 49, No. 7. July, 1921. 379-433, figs. 17, charts 10. Price, 15 cents a copy, \$1.50 a year. Payable to the Superintendent of Documents.

Special Articles: Improved gages for precipitation. By S. P. Fergusson.—A warm winter (1920-21) followed by a warm summer. By A. J. Henry.—The earth's wind-belts as factors of climate. By L. W. C. Bonacina.—Climate and vegetation of the high Pamir. By O. Olufsen.—Climate and alfalfa seed. By J. C. Alter.—Concerning a graphical device for pressure reduction. By C. L. Meisinger.—London smoke fogs. By J. S. Owens.—Remarkable aurora of May 14-15, 1921. By H. Lyman.

- Same,** Vol. 49, No. 8. August, 1921. Pp. 435-479, figs. 26, charts 11. Price, 15 cents a copy, \$1.50 a year. Payable to the Superintendent of Documents.

Special Articles: Excessive Precipitation in Arkansas. By H. S. Cole.—Relation between frequency and intensity of precipitation. By J. W. Alvord.—Sources of two unusual rainfall records. By I. E. Houk.—Early records of tropical hurricanes on the Texas coast in the vicinity of Galveston. By R. D. Frazier.—Systematic corrections to the Calama, Chile, solar constant values. By C. G. Abbot.—Supplemental note on free-air temperature at Drexel and Ellendale during the warm summer of 1921. By A. J. Henry.

- National Weather and Crop and Snow and Ice Bulletin.** Nos. 40, 41, 42, 43, October, 1921, reporting weather and crop conditions throughout the United States. Issued weekly. Price 25 cents a year.

NOTE.—This bulletin is furnished free of charge to public and educational institutions, libraries, newspapers, cooperative observers, weather correspondents, and to those who will post or display it for the general benefit of the public. To all others the price is 25 cents per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

JOHN L. COBBS, JR.
Chief, Division of Publications.